| APPLICATION |
| STREAM |
| SESSION |
| CONNECTION |
| SECURITY |
| MAC |
| PHYSICAL |

STREAM 0 : SIGNALING
STREAM 1 : PPP PACKET FOR AUTHENTICATION
STREAM 2 : PPP PACKET TO PDSN
STREAM 3 : TAS

FIG.1

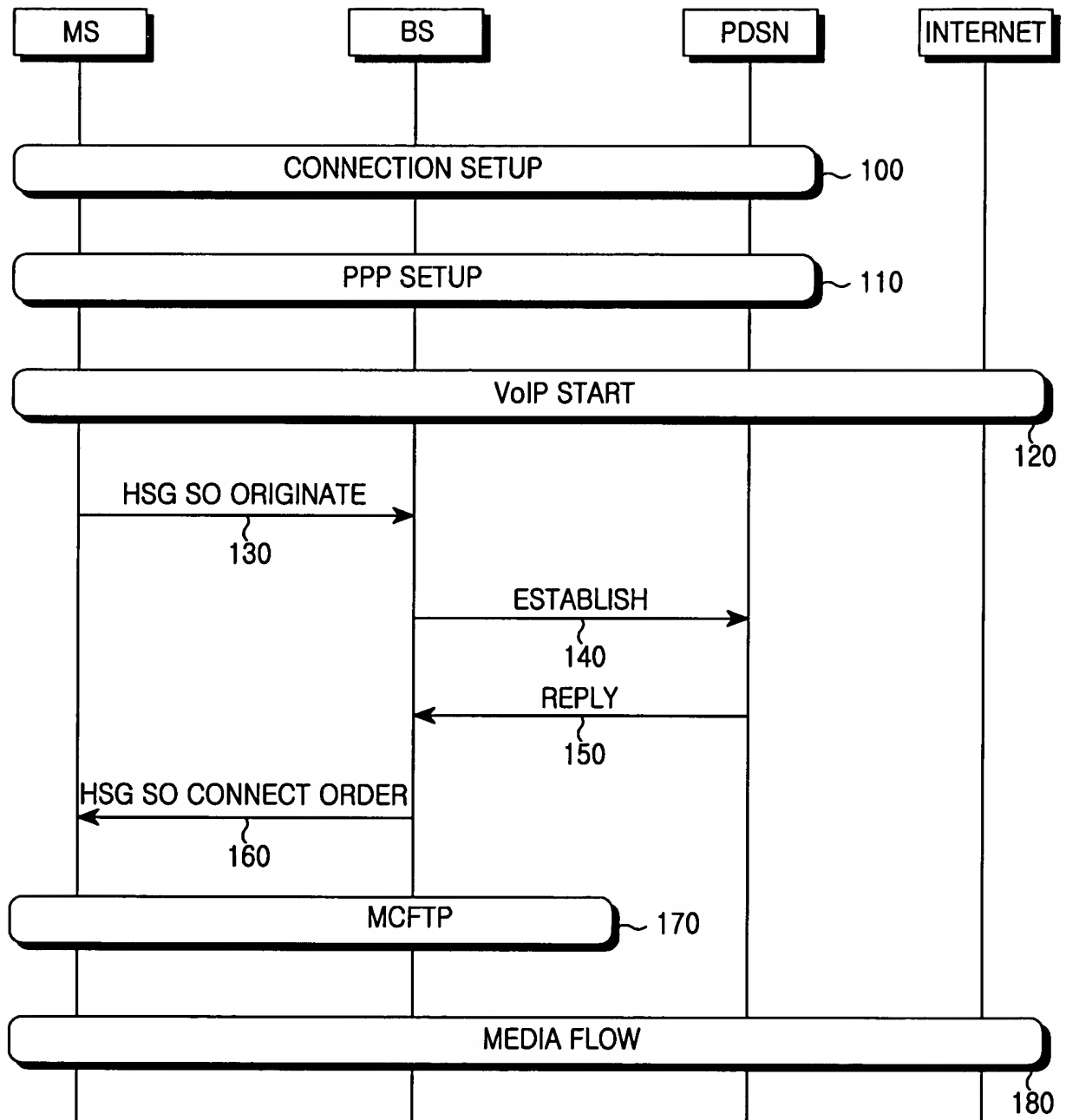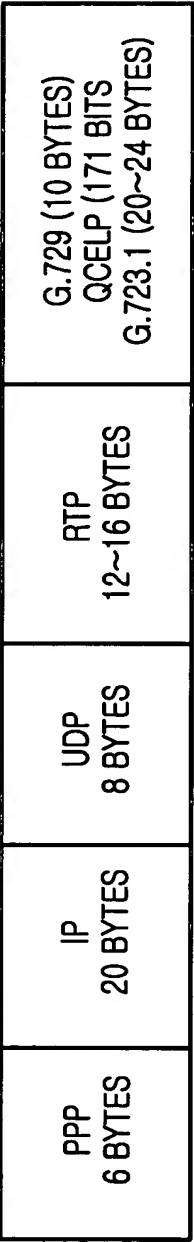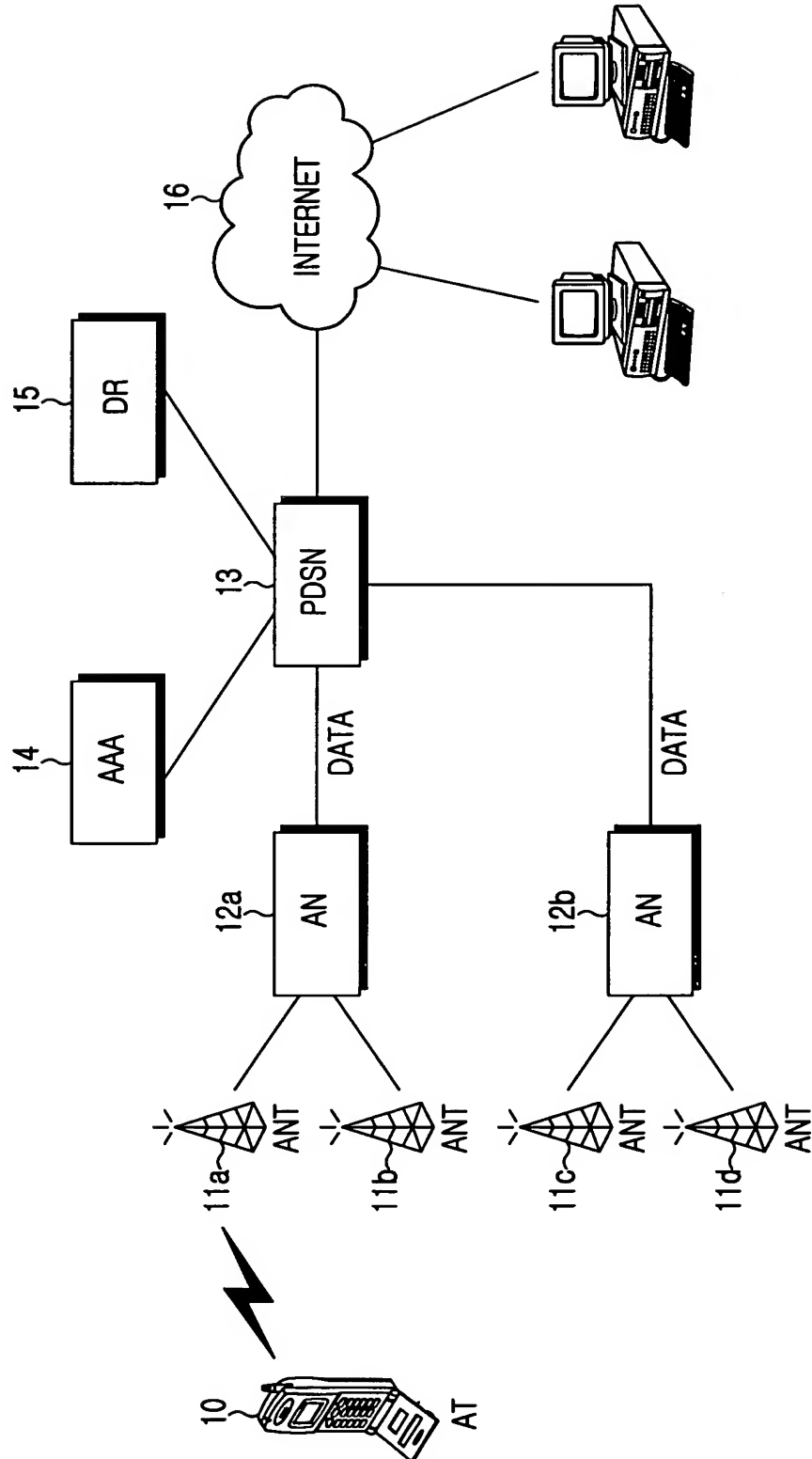| ID VALUE	MEANING
0x0000	DEFAULT SIGNALING APPLICATION
0x0001	DEFAULT PACKET APPLICATION BOUND TO THE RADIO ACCESS NETWORK
0x0002	DEFAULT PACKET APPLICATION BOUND TO THE SERVICE ACCESS NETWORK
0x0003	TAS(TEST APPLICATION SPECIFICATION)
0xFFFF	STREAM NOT USED
ALL OTHER VALUES	RESERVED

FIG.2

MS	BS	PDSN	INTERNET

CONNECTION SETUP ⌐ 100

PPP SETUP ⌐ 110

VoIP START

120

HSG SO ORIGINATE →

130

ESTABLISH →

140

← REPLY

150

← HSG SO CONNECT ORDER

160

MCFTP ⌐ 170

MEDIA FLOW

180

FIG.3

PPP 6 BYTES	IP 20 BYTES	UDP 8 BYTES	RTP 12~16 BYTES	G.729 (10 BYTES) QCELP (171 BITS G.723.1 (20~24 BYTES)

FIG.4

FIG.5

AT	AN	PDSN	INTERNET

UATI ASSIGNMENT ~200

SESSION CONFIGURATION ~205

CONNECTION ESTABLISHMENT ~210

AT AUTHENTICATION ~215

PPP SETUP (THROUGH STREAM2) ~220

SESSION CONFIGURATION FOR MULTIPLE SERVICE INSTANCE ~225

CONNECTION ESTABLISHMENT ~230

VoIP START (THROUGH STREAM 1) ~235

ENHANCED CONNECTION REQUEST
242

SETUP
244

CONNECT
246

ENHANCED CONNECTION RESPONSE
248

~240

MCFTP (THROUGH STREAM 1) ~245

MEDIA FLOWS (THROUGH STREAM 2) ~250

FIG.6

FIELD	LENGTH(BITS)	DESCRIPTION
MESSAGE ID	8	THE SENDER SHALL SET THIS FIELD TO 0x50.
TRANSACTION ID	8	THE SENDER SHALL INCREMENT THIS VALUE FOR EACH NEW CONFIGURATION REQUEST MESSAGE SENT.

ZERO OR MORE INSTANCES OF THE FOLLOWING RECORD

FIELD	LENGHT(BITS)	DESCRIPTION
LENGTH(BIT)	8	LENGTH OF THIS RECORD IN OCTETS.
ATTRIBUTE ID	8	THE SENDER SHALL SET THIS FIELD TO 0x00.

ONE OR MORE THE FOLLOWING RECORD

VALUE ID		
	8	THE SENDER SHALL SET THIS FIELD TO AN IDENTIFIER TO THIS COMPLEX VALUE.
STREAM 0 APPLICATION	16	THE SENDER SHALL SET THIS FIELD TO THE SUBTYPE OF THE APPLICATION USED OVER STREAM 0.
STREAM 1 APPLICATION	16	THE SENDER SHALL SET THIS FIELD TO THE SUBTYPE OF THE APPLICATION USED OVER STREAM 1.
STREAM 2 APPLICATION	16	THE SENDER SHALL SET THIS FIELD TO THE SUBTYPE OF THE APPLICATION USED OVER STREAM 2.
STREAM 3 APPLICATION	16	THE SENDER SHALL SET THIS FIELD TO THE SUBTYPE OF THE APPLICATION USED OVER STREAM 3.

FIG.7

FIELD	LENGTH(BITS)	DESCRIPTION
MESSAGE ID	8	THE SENDER SHALL SET THIS FIELD TO 0x51.
TRANSACTION ID	8	THE SENDER SHALL INCREMENT THIS VALUE TO THE TRANSACT ID FIELD OF THE CORRESPONDING CONFIGURATION REQUEST MESSAGE.

ZERO OR MORE INSTANCES OF THE FOLLOWING RECORD

ATTRIBUTE RECORD	ATTRIBUTE DEPENDENT	AN ATTRIBUTE RECORD CONTAINING A SINGLE ATTRIBUTE. IF THIS MESSAGE SELECTS A COMPLEX ATTRIBUTE, ONLY THE VALUE ID FIELD OF THE COMPLEX ATTRIBUTE SHALL BE INCLUDED IN THE MESSAGE.

FIG.8

ID VALUE	MEANING
0x0000	DEFAULT SIGNALING APPLICATION
0x0001	DEFAULT PACKET APPLICATION BOUND TO THE RADIO ACCESS NETWORK
0x0002	DEFAULT PACKET APPLICATION BOUND TO THE SERVICE ACCESS NETWORK
0x0003	TAS(TEST APPLICATION SPECIFICATION)
0x0004	DEFAULT PACKET APPLICATION BOUND TO THE SERVICE ACCESS NETWORK WITH SI-TYPE_2
0x0005	DEFAULT PACKET APPLICATION BOUND TO THE SERVICE ACCESS NETWORK WITH SI-TYPE_3
0xFFFF	STREAM NOT USED
ALL OTHER VALUES	RESERVED

FIG.9

FIELD	LENGTH(BITS)	DESCRIPTION
MESSAGE ID	8	AT SHALL SET THIS FIELD TO ANY UNUSED VALUE.
TRANSACTION ID	8	AT SHALL INCREMENT THIS VALUE FOR EACH NEW ENHANCED CONNECTION REQUEST MESSAGE SENT.
STREAM TYPE	2	THIS MEANS STREAM TYPE OF SERVICE INSTANCE TO BE ADDED AND HAS ONE OF STREAM IDS SET BY SESSION CONFIGURATIONS
RESERVED	6	

FIG.10

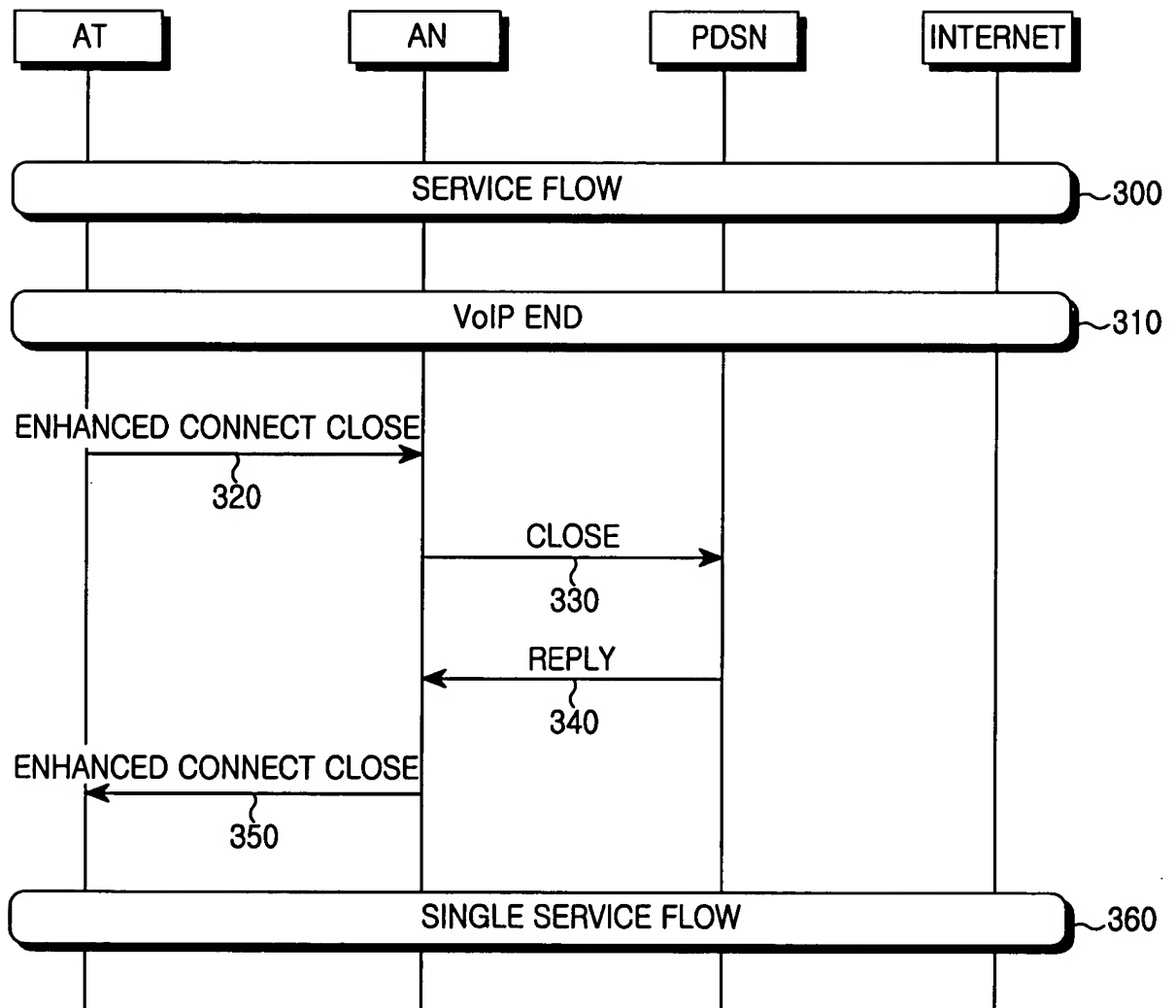| FIELD	LENGTH(BITS)	DESCRIPTION
MESSAGE ID	8	AT SHALL SET THIS FIELD TO ANY UNUSED VALUE.
TRANSACTION ID	8	AT SHALL VALUE TO THE TRANSACTION ID FIELD OF THE CORRESPONDING ENHANCED CONNECTION REQUEST MESSAGE.
RESULT	1	"0" MEANS SUCCESS AND "1" MEANS FAILURE.
RESERVED	7	

FIG.11

AT	AN	PDSN	INTERNET

SERVICE FLOW	~300

VoIP END	~310

ENHANCED CONNECT CLOSE

320

CLOSE

330

REPLY

340

ENHANCED CONNECT CLOSE

350

SINGLE SERVICE FLOW	~360

FIG.12

FIELD	LENGTH(BITS)	DESCRIPTION
MESSAGE ID	8	AT SHALL SET THIS FIELD TO ANY UNUSED VALUE.
CLOSE REASON	3	REASON OF CONNECTION CLOSE
STREAM TYPE	2	THIS MEANS STREAM TYPE OF SERVICE INSTANCE TO BE TERMINATED AND HAS ONE OF STREAM IDS SET BY SESSION CONFIGURATIONS
RESERVED	3	

FIG.13

FIELD	DESCRIPTION
'000'	NORMAL CLOSE
'001'	CLOSE REPLY
'010'	CONNECTION ERROR
OTHER VALUES	RESERVED

FIG.14